

Pandas Exercise 1

Some of the questions require you to google for the solution. Don't hesitate to do that if you can't solve the questions.

Being able to search for solutions online is a hallmark of a good coder.

Once you have complete these questions, store the solutions well. They will serve as a template/reference guide when you work on dataframes in the future.

Solutions can be found in this Chapter's dropbox folder

Link: https://www.dropbox.com/sh/4xmb3f0alqrx0mc/AAC2w9_qtGIcfF3_8kuptLQGa?dl=0

Is is titled: "Dataframes Exercise 1 – Solutions".

Questions

Qn 1)

Create an empty Dataframe with 2 columns: 1) StockA and 2) StockB

Qn 2)

Create another Dataframe with 3 columns: 1) Date 2) StockA and 3) StockB.

For "Date" column, fill it up with 30 days (of your choice)

For "StockA" column, fill it up with 30 random positive numbers of type float (aka decimals) between 100.00 to 200.00

For "StockB" column, fill it up with 30 random positive numbers of type float (aka decimals) between 200.00 to 300.00

Qn 3)

Output the first 3 rows of your dataframe

Qn 4)

Output the last 8 rows of your dataframe

Qn 5)

Reverse the data positions. The top row should be the last row, and the 2nd row is now the second last row etc.

Qn 6)

Reverse the dataframe back to the original order

Qn 7)

Add another row data. Fill in the appropriate date and put in any values you want for StockA and StockB

Hint: You will need to convert a string to a date data type.

Datetime format codes: <https://docs.python.org/2/library/datetime.html#strftime-strptime-behavior>

Qn 8)

Change the value of StockA on row 15 to 50

Qn 9)

Add a new column called "Stock C" and fill it with values ranging from 5.00 to 10.00

Qn 10)

Set the "Date" column as the index of the dataframe

Qn 11)

Reset your index. In other words, we want our index to be numbers and not the "Date" column.

Qn 12)

Delete rows 5, 10, 11, 12, 13, 14, 15. Then reset your index again.

Qn 13)

Delete the column containing StockA

Qn 14)

Find the a) Sum, average, maximum value, minimum value, variance and standard deviation of stocks B and C

Qn 15)

Duplicate your current dataframe. Attach the duplicate to the bottom of your current dataframe.